

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P1210622

Luminaire Tested: **ARCH3-180-730-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210622
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-180-730-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1375mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16490 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 180.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

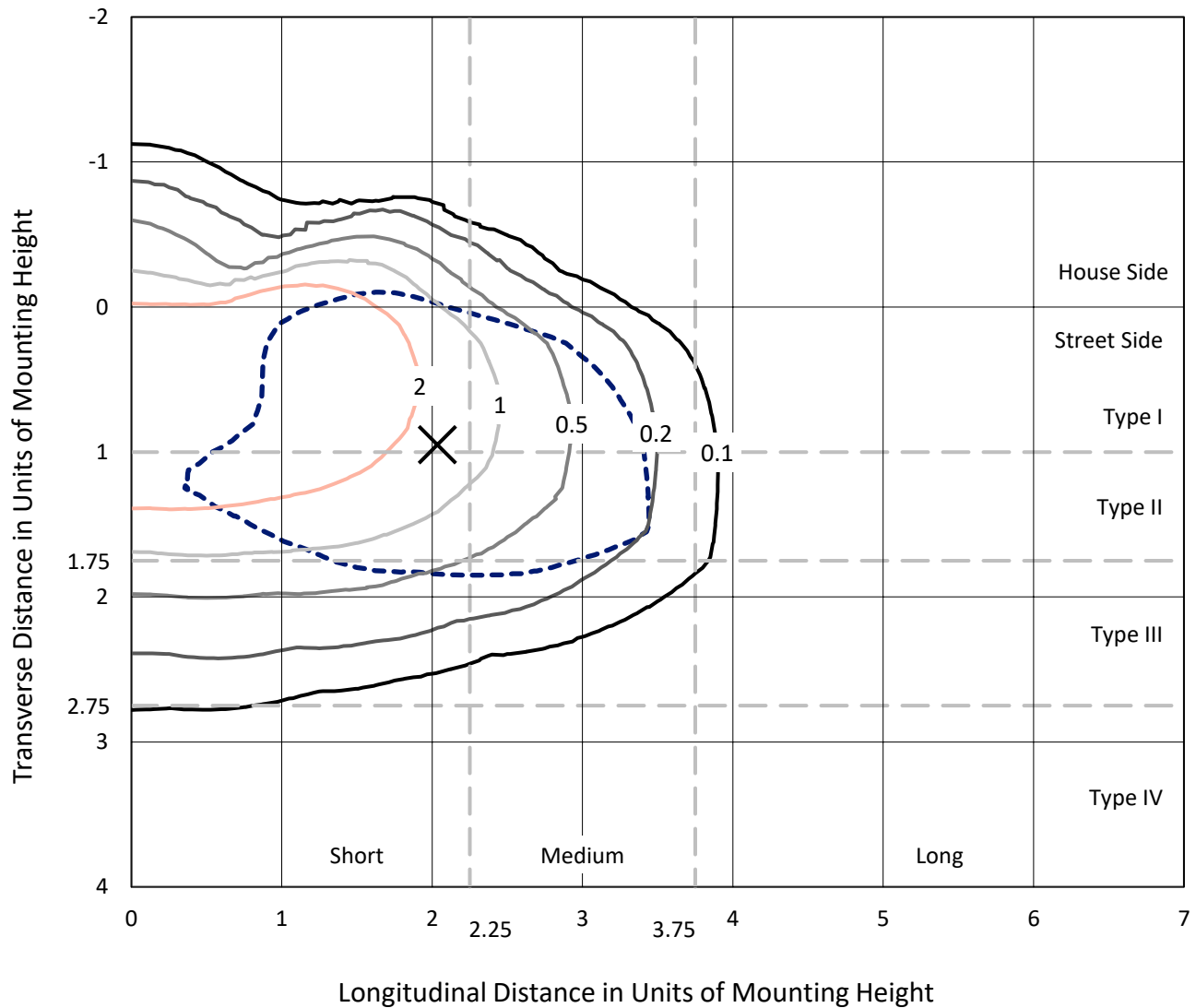


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Iso-Footcandle Lines of Horizontal Illumination

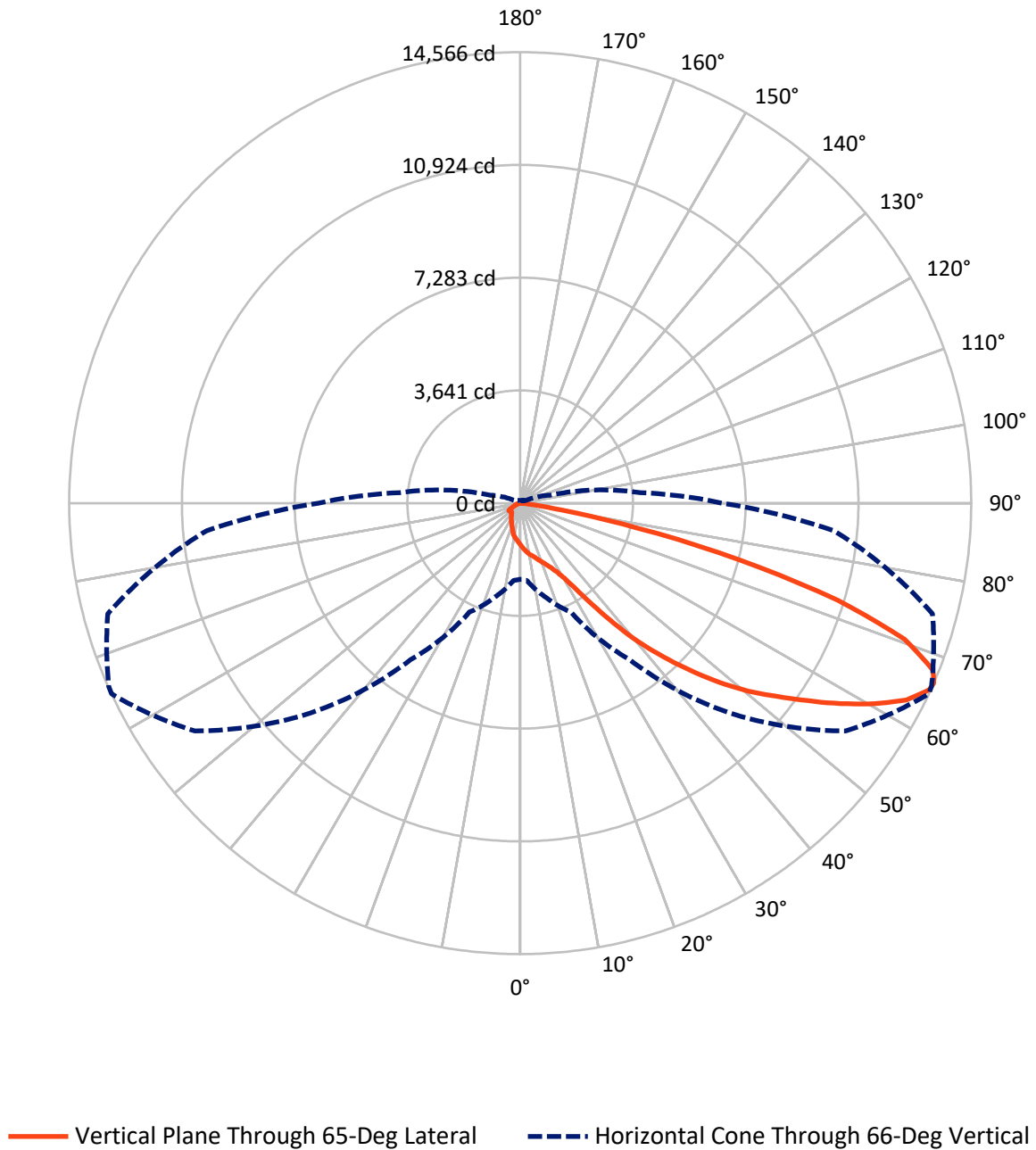
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1946.2	0.0	1946.2
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	14543.8	0.0	14543.8
	% Fixture	88.2	0.0	88.2
Total	Lumens	16490.0	0.0	16490.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.4	0.8
10°-20°	377.0	2.3
20°-30°	690.1	4.2
30°-40°	1402.2	8.5
40°-50°	2961.2	18.0
50°-60°	4552.3	27.6
60°-70°	4582.2	27.8
70°-80°	1712.1	10.4
80°-90°	85.5	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	16490.0	100.0
0°-180°	16490.0	100.0

Coefficient of Utilization



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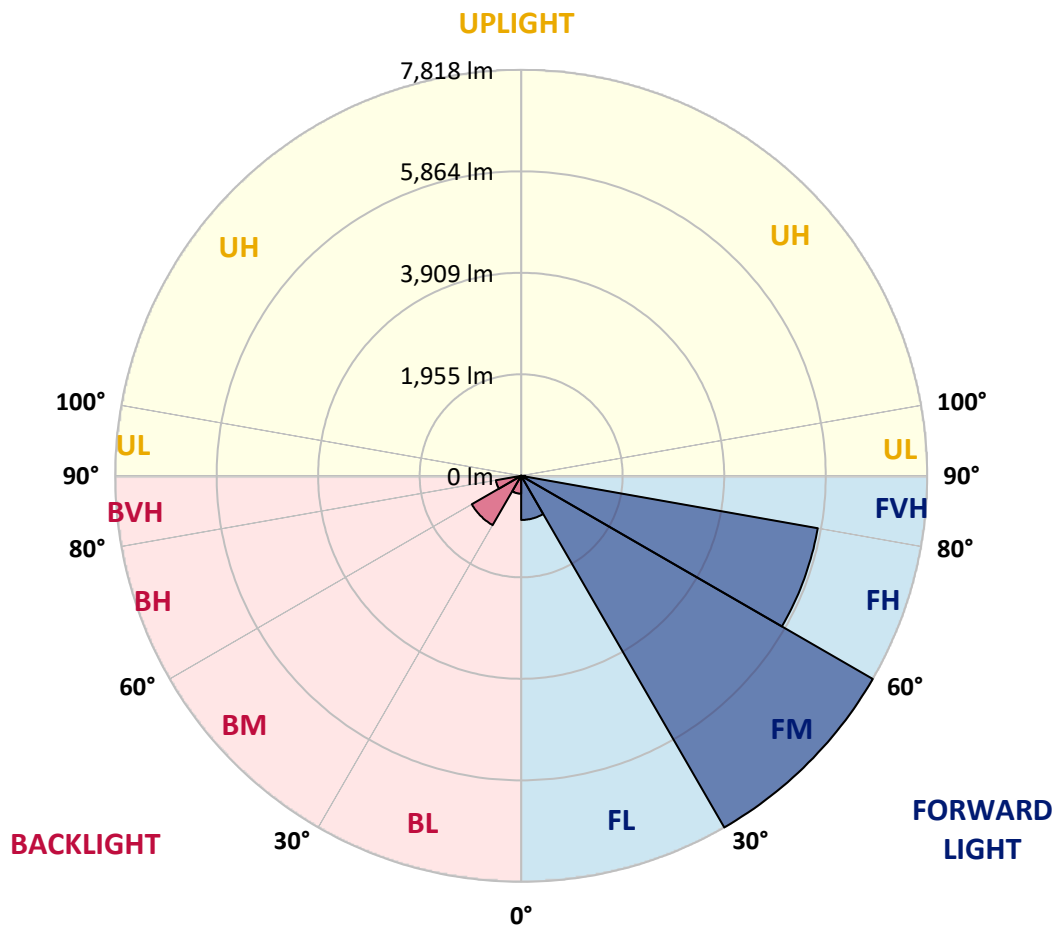
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	850.0	5.2			
FM	(30°-60°)	7818.4	47.4			
FH	(60°-80°)	5799.9	35.2			G3/7500
FVH	(80°-90°)	75.5	0.5			G1/100
BL	(0°-30°)	344.5	2.1	B1/500		
BM	(30°-60°)	1097.3	6.7	B2/2500		
BH	(60°-80°)	494.4	3.0	B1/500		G1/500
BVH	(80°-90°)	10.1	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5
2.5°	1532.0	1535.0	1529.0	1517.0	1505.0	1490.1	1466.1	1427.3	1421.3	1394.3	1364.4
5°	1636.7	1642.7	1633.7	1630.7	1624.7	1603.8	1570.9	1514.0	1508.0	1454.2	1385.4
7.5°	1672.6	1681.6	1675.6	1675.6	1675.6	1666.6	1651.7	1600.8	1591.8	1523.0	1418.3
10°	1699.5	1705.5	1702.5	1714.5	1723.5	1717.5	1708.5	1678.6	1669.6	1600.8	1463.2
12.5°	1741.4	1744.4	1747.4	1753.4	1768.4	1774.3	1771.3	1744.4	1738.4	1690.6	1520.0
15°	1780.3	1780.3	1783.3	1810.2	1831.2	1843.2	1846.2	1825.2	1819.2	1780.3	1591.8
17.5°	1816.2	1819.2	1828.2	1858.1	1894.0	1918.0	1932.9	1923.9	1915.0	1885.0	1675.6
20°	1870.1	1876.1	1885.0	1926.9	1962.8	2001.7	2031.7	2028.7	2025.7	2004.7	1774.3
22.5°	1962.8	1968.8	1983.8	2022.7	2058.6	2106.5	2157.3	2154.3	2145.4	2130.4	1891.0
25°	2103.5	2103.5	2112.5	2145.4	2190.2	2247.1	2295.0	2303.9	2295.0	2286.0	2037.6
27.5°	2280.0	2283.0	2283.0	2318.9	2360.8	2432.6	2492.5	2501.4	2501.4	2492.5	2235.1
30°	2525.4	2516.4	2510.4	2540.3	2585.2	2689.9	2794.7	2812.6	2803.6	2818.6	2513.4
32.5°	2947.3	2932.3	2881.4	2887.4	2914.3	3058.0	3234.5	3297.3	3294.3	3321.3	2962.2
35°	3530.7	3500.8	3426.0	3363.2	3360.2	3515.8	3785.1	4021.4	4018.4	4111.2	3644.4
37.5°	4189.0	4227.9	4087.3	3979.5	3946.6	4069.3	4416.4	4928.1	4955.0	5116.6	4539.1
40°	5068.7	5092.6	4913.1	4760.5	4604.9	4649.8	5107.6	5903.5	5951.4	6130.9	5433.7
42.5°	5834.7	5858.6	5753.9	5568.4	5370.9	5287.1	5804.8	6789.2	6828.1	7076.4	6355.3
45°	6355.3	6373.3	6409.2	6427.1	6202.7	6029.2	6657.5	7698.8	7746.7	8033.9	7255.9
47.5°	6762.2	6777.2	6849.0	7028.5	6983.7	6846.0	7525.2	8644.3	8656.3	8976.4	8132.6
50°	6950.7	6986.6	7163.2	7438.5	7635.9	7674.8	8467.8	9538.9	9571.9	9877.1	8961.5
52.5°	6741.3	6753.3	7199.1	7716.7	8114.7	8509.6	9413.3	10367.8	10463.5	10690.9	9706.5
55°	6035.1	6121.9	6798.1	7707.8	8491.7	9302.6	10424.6	11262.4	11349.2	11492.8	10361.8
57.5°	5215.3	5311.0	6133.9	7321.8	8653.3	10035.6	11361.2	12213.9	12273.8	12312.7	10963.2
60°	4506.2	4595.9	5442.7	6582.7	8491.7	10553.3	12231.9	13159.4	13210.3	13105.6	11265.4
62.5°	3635.5	3725.2	4578.0	5604.3	7857.4	10658.0	12878.2	14000.2	14021.2	13736.9	11079.9
65°	2740.8	2800.6	3512.8	4392.5	6747.3	10101.5	13024.8	14523.8	14502.9	13919.4	10523.4
66°	2456.5	2507.4	3135.8	3883.8	6169.8	9592.8	12827.3	14565.7	14544.8	13784.8	10158.3
67.5°	2118.4	2133.4	2651.0	3177.7	5161.4	8512.6	12225.9	14374.2	14392.2	13413.8	9491.1
70°	1654.7	1651.7	1950.9	2211.2	3524.7	6056.1	10197.2	13168.4	13255.2	12013.4	8093.7
72.5°	1059.2	1023.3	1196.9	1352.4	2052.6	3515.8	7435.5	10732.8	10879.4	9437.2	6029.2
75°	631.3	595.4	637.3	676.2	984.4	1690.6	4371.5	7303.8	7444.4	6050.1	3587.6
77.5°	472.8	457.8	460.8	427.9	436.9	634.3	1995.8	3859.9	3961.6	2477.5	1361.4
80°	362.0	323.2	302.2	317.2	287.2	251.3	742.1	1328.5	1391.3	586.5	284.3
82.5°	242.4	209.4	194.5	212.4	182.5	140.6	179.5	257.3	251.3	158.6	110.7
85°	125.7	107.7	107.7	107.7	92.8	68.8	77.8	104.7	104.7	83.8	65.8
87.5°	35.9	32.9	38.9	35.9	26.9	26.9	29.9	35.9	35.9	32.9	29.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5
2.5°	1340.5	1328.5	1295.6	1271.7	1247.7	1226.8	1202.8	1196.9	1184.9	1187.9	1181.9
5°	1349.5	1316.5	1259.7	1205.8	1163.9	1128.0	1083.2	1065.2	1041.3	1032.3	1026.3
7.5°	1361.4	1313.5	1229.8	1155.0	1083.2	1011.3	939.5	897.6	870.7	858.7	849.8
10°	1388.4	1325.5	1214.8	1098.1	975.4	873.7	801.9	772.0	754.0	751.0	748.0
12.5°	1424.3	1343.5	1199.8	1026.3	864.7	769.0	724.1	715.1	712.1	712.1	709.1
15°	1478.1	1373.4	1175.9	942.5	778.0	712.1	691.2	676.2	670.2	670.2	670.2
17.5°	1532.0	1409.3	1140.0	855.8	718.1	676.2	655.3	646.3	640.3	643.3	640.3
20°	1600.8	1451.2	1092.1	780.9	679.2	646.3	625.4	616.4	613.4	613.4	613.4
22.5°	1678.6	1499.1	1032.3	724.1	646.3	616.4	595.4	586.5	580.5	583.5	583.5
25°	1783.3	1558.9	969.5	667.2	613.4	586.5	562.5	550.6	550.6	553.5	556.5
27.5°	1918.0	1630.7	906.6	631.3	583.5	556.5	529.6	517.6	520.6	526.6	526.6
30°	2115.4	1729.5	843.8	592.4	550.6	520.6	496.7	484.7	490.7	502.7	502.7
32.5°	2396.7	1891.0	789.9	547.6	502.7	469.8	445.8	436.9	451.8	475.8	475.8
35°	2899.4	2187.3	757.0	502.7	451.8	412.9	383.0	374.0	395.0	424.9	424.9
37.5°	3572.6	2663.0	769.0	463.8	409.9	365.0	332.1	320.2	335.1	362.0	371.0
40°	4323.6	3237.5	873.7	430.9	371.0	326.1	293.2	281.3	290.2	302.2	305.2
42.5°	5074.7	3847.9	1071.2	406.9	341.1	293.2	263.3	254.3	260.3	263.3	266.3
45°	5822.7	4452.3	1319.5	392.0	314.2	266.3	236.4	236.4	239.4	239.4	239.4
47.5°	6531.8	5041.8	1579.9	389.0	290.2	239.4	215.4	218.4	218.4	221.4	221.4
50°	7202.1	5568.4	1843.2	398.0	269.3	215.4	197.5	197.5	197.5	200.5	197.5
52.5°	7761.6	6029.2	2118.4	412.9	248.3	197.5	179.5	179.5	179.5	182.5	179.5
55°	8291.2	6448.1	2399.7	433.9	230.4	182.5	164.6	158.6	158.6	161.6	158.6
57.5°	8722.1	6726.3	2666.0	436.9	215.4	167.6	152.6	143.6	143.6	143.6	143.6
60°	8740.0	6564.8	2743.8	383.0	197.5	152.6	137.6	125.7	128.7	128.7	128.7
62.5°	8168.5	5715.0	2205.2	287.2	176.5	137.6	125.7	113.7	113.7	113.7	113.7
65°	7046.5	4446.3	1292.6	227.4	152.6	122.7	110.7	101.7	101.7	101.7	98.7
66°	6519.9	3898.8	990.4	206.5	143.6	119.7	107.7	98.7	95.7	92.8	92.8
67.5°	5661.1	3081.9	619.4	182.5	131.7	110.7	98.7	89.8	86.8	83.8	83.8
70°	4263.8	1956.9	302.2	140.6	113.7	95.7	86.8	77.8	74.8	71.8	68.8
72.5°	2992.1	1146.0	158.6	107.7	92.8	83.8	74.8	65.8	62.8	59.8	59.8
75°	1690.6	553.5	104.7	77.8	74.8	68.8	62.8	53.9	50.9	50.9	50.9
77.5°	640.3	191.5	71.8	56.9	59.8	53.9	44.9	44.9	41.9	44.9	41.9
80°	167.6	83.8	44.9	41.9	44.9	38.9	32.9	35.9	35.9	35.9	35.9
82.5°	89.8	47.9	26.9	29.9	26.9	26.9	20.9	23.9	26.9	23.9	26.9
85°	62.8	23.9	15.0	15.0	12.0	12.0	9.0	12.0	15.0	12.0	12.0
87.5°	32.9	9.0	9.0	9.0	9.0	6.0	3.0	0.0	3.0	3.0	3.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)